

## Amir Montgomery

1. This assignment was fun to get back on, I had a little trouble when it came to returning prime factors of large numbers because I still don't fully understand float precision (I understand the concept, but not really how to code for it yet), but I figured a workaround so that it works.
2. I tested my code by coming up with a few different test cases, doing the math by hand and calculator.

```
amontg@LAPTOP-AMONTGOMERY:/mnt/c/Users/Amir_Montgomery/Documents/S2023/Algorithms/Workspace/GodelNumbering$ ^C
amontg@LAPTOP-AMONTGOMERY:/mnt/c/Users/Amir_Montgomery/Documents/S2023/Algorithms/Workspace/GodelNumbering$ go run .
Exponents: [7 6 5 4 3 2 1]
Prime Numbers: [2 3 5 7 11 13 17]
Prime Factors: [2 2 2 2 2 2 3 3 3 3 3 5 5 5 5 7 7 7 7 11 11 11 13 13 17]
Solution: 2677277333530800000
```

3. amontg@LAPTOP-AMONTGOMERY:/mnt/c/Users/Amir\_Montgomery/Documents/S2023/Algorithms/Workspace/GodelNumbering\$